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3-5 Mathematics Resources to Extend and Enrich the Core Curriculum Appropriate for High Ability Students
Indiana Academic Standard Strand:

Geometry

Resource	Annotation	Differentiation Tip(s)	Correlating Indiana Academic Strand Standards	Correlating Indiana Academic Process Standards
<i>DynaMath.</i> dynamath.scholastic.com	<i>DynaMath</i> is a monthly magazine that provides upper-elementary students with challenging and engaging real-world math applications to extend and enrich the core curriculum.	<i>Flexible Grouping:</i> Assign like-ability partners or small groups to collaboratively explore and work through the magazine activities.	* varies with monthly issues	* varies with monthly issues
Gavin, M.K. et al. (2008) <i>(Project M3: Mentoring Mathematical Minds)</i> <i>Funkytown Fun House: Focusing on Proportional Reasoning and Similarity.</i>	In this supplemental unit, students are introduced to proportional reasoning, including congruence and ratio, in the setting of a fun house. Students apply geometry knowledge when	<i>Tiered Delivery:</i> Utilize the unit's Hint Cards and Think Beyond Cards.	5.G.1; 5.G.2 *This unit also aligns with 7th grade	PS.1; PS.2; PS.3; PS.4; PS.5; PS.6; PS.7; PS.8

<p>Dubuque, IA: Kendall/Hunt Publishing Co. (ISBN: 978-0-7575-4220-6)</p> <p><i>Also found in:</i></p> <ul style="list-style-type: none"> • <i>Measurement</i> 	<p>they design drawings for new fun house rooms and mirrors. A Teacher Guide, Student Mathematician's Journal, Hint Cards, and Think Beyond Cards are available. The unit is intended for fifth grade and takes approximately 32 50-minute class sessions or 6 weeks to complete. Hint Cards support students who need more practice or additional instruction with skills or concepts, and Think Beyond Cards challenge students who have demonstrated mastery and are ready for an increased challenge.</p>		<p>Geometry and Measurement standards, specifically 7.GM.2 and 7.GM.3</p>	
<p>Gavin, M.K. et al. (2006) <i>(Project M3: Mentoring Mathematical Minds) What's the Me in Measurement All About?</i> Dubuque, IA: Kendall/Hunt Publishing Co. (ISBN: 0-7575-2333-1)</p> <p><i>Also found in:</i></p> <ul style="list-style-type: none"> • <i>Measurement</i> 	<p>In this supplemental unit, students are actively engaged in the measurement process. They measure objects in their classrooms, at home, and on their own bodies. The unit introduces standard units of measure and the need to select units appropriate to the attribute being measured. Students learn about perimeter, area, and volume in the context of problem-solving situations during</p>	<p><i>Tiered Delivery:</i> Utilize the unit's Hint Cards and Think Beyond Cards.</p>	<p>3.G.1; 3.G.2; 3.G.3; 3.G.4</p>	<p>PS.1; PS.2; PS.3; PS.4; PS.5; PS.6; PS.7; PS.8</p>

	<p>which they also apply number sense, computation, and geometry skills. A Teacher Guide, Student Mathematician's Journal, Hint Cards, and Think Beyond Cards are available. The unit is intended for third grade. Hint Cards support students who need more practice or additional instruction with skills or concepts, and Think Beyond Cards challenge students who have demonstrated mastery and are ready for an increased challenge.</p>			
<p>VandeCreek, B. (2000) <i>Math Rules! 3rd-4th.</i> Marion, IL: Pieces of Learning. www.piecesoflearning.com (ISBN: 978-1-880505-80-9) <i>Also found in:</i></p> <ul style="list-style-type: none"> • <i>Measurement</i> • <i>Data Analysis/Data Analysis and Statistics</i> • <i>Number Sense</i> • <i>Computation</i> • <i>Algebraic Thinking</i> 	<p>This reproducible resource provides a year's worth of weekly 8-problem enrichment challenge worksheets for both third and fourth grade. The variety of problems covers standards from all content strands. These worksheets are ideal for homework use.</p>	<p><i>Tiered delivery:</i> Match the grade level resource most appropriate to the readiness level of students. This resource is available for grades 1-6.</p>	<p>3.G.2; 3.G.3; 3.G.4 4.G.1; 4.G.2; 4.G.3; 4.G.4</p>	<p>PS.1; PS.2; PS.3; PS.4; PS.5; PS.6; PS.7; PS.8</p>

<p>VandeCreek, B. (2000) <i>Math Rules! 5th-6th.</i> Marion, IL: Pieces of Learning. www.piecesoflearning.com (ISBN: 978-1-880505-81-6)</p> <p><i>Also found in:</i></p> <ul style="list-style-type: none"> • <i>Measurement</i> • <i>Data Analysis/Data Analysis and Statistics</i> • <i>Number Sense</i> • <i>Computation</i> • <i>Algebraic Thinking</i> 	<p>This reproducible resource provides a year's worth of weekly 8-problem enrichment challenge worksheets for both fifth and sixth grade. The variety of problems covers standards from all content strands. These worksheets are ideal for homework use.</p>	<p><i>Tiered delivery:</i> Match the grade level resource most appropriate to the readiness level of students. This resource is available for grades 1-6.</p>	<p>4.G.1; 4.G.2; 4.G.3; 4.G.4; 4.G.5 5.G.1; 5.G.2</p>	<p>PS.1; PS.2; PS.3; PS.4; PS.5; PS.6; PS.7; PS.8</p>
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